

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12272064

Catalog # : E00712EP3YAX160MF3-W

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/
T125 °C

Frame : 160M
Output : 7.5 kW (10 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 15.9/9.15 A
L. R. Amperes : 92.2/53.1 A
LRC : 5.8
No load current : 7.30/4.20 A
Rated speed : 970 rpm
Slip : 3.00 %
Rated torque : 54.5 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 2.92 sq.ft.lb
Design : N

Locked rotor time : 30s (cold) 17s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 57.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 260 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.8	86.7	87.0	86.9	87.2	87.2	87.2	87.2
	85.7	86.7	86.0	87.0	87.2	89.5	87.2	89.5
Power Factor	0.41	0.36	0.67	0.62	0.77	0.73	0.82	0.80
	0.33	0.34	0.59	0.59	0.71	0.71	0.78	0.78

Foundation loads
Max. traction : 579 lb
Max. compression : 839 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	14.6	14.6	14.6	11.7
	P2 (0,5;1,0)	13.3	13.3	13.3	10.6
	P3 (0,25;1,0)	12.3	12.3	12.3	9.8
	P4 (0,9;0,5)	6.9	6.9	6.9	5.5
	P5 (0,5;0,5)	5.0	5.0	5.0	4.0
	P6 (0,5;0,25)	3.3	3.3	3.3	2.7
	P7 (0,25;0,25)	2.4	2.4	2.4	1.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
II 3G Ex ec IIC T3 Gc
II 3D Ex tc IIIB T125°C Dc
EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
ООО «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X

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Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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